

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|---|------------------|---------|------------------|
| S44 | 70 | OFDM and ((training pilot) with group (sub\$1group) (sub\$1 adj group)) same (((plurality multi\$1 mulitple) near4 (antenna)) MIMO diversity) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/16 15:36 |
| S45 | 70 | OFDM and ((training pilot) with group (sub\$1group) (sub\$1 adj group)) same (((plurality multi\$1 mulitple) near4 (antenna)) MIMO diversity) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/16 15:43 |
| S46 | 6 | OFDM and (((training pilot) with group (sub\$1group) (sub\$1 adj group)) with ((different separate) near2 antenna)) same (((plurality multi\$1 mulitple) near4 (antenna)) MIMO diversity) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/16 15:38 |
| S47 | 57 | OFDM and ((training pilot) with (group (sub\$1group) (sub\$1 adj group))) same (((plurality multi\$1 mulitple) near4 (antenna)) MIMO diversity) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/16 15:45 |
| S48 | 36 | OFDM and ((training pilot) near4 (group (sub\$1group) (sub\$1 adj group))) same (((plurality multi\$1 mulitple) near4 (antenna)) MIMO diversity) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/16 17:13 |
| S49 | 30 | ((training pilot) near4 (group (sub\$1group) (sub\$1 adj group))) same (((plurality multi\$1 mulitple) near4 (antenna)) MIMO diversity) and (370/203,208,335,344,442.ccls. 375/295,299,259,260,267,219,130, 140,141,146,147,316.ccls.) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/17 16:57 |
| S50 | 6 | S49 not S48 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/16 17:23 |
| S51 | 3 | 10/131612 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/16 17:41 |
| S52 | 16 | ((distribut\$7) near5 (training pilot) near5 (antenna\$1)) and (MIMO OFDM) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/17 16:58 |

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|-----|----|--|---|----|----|------------------|
| S53 | 38 | ((distribut\$7) with (training pilot) with (antenna\$1)) and (MIMO OFDM) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/26 15:06 |
| S54 | 26 | mimo and niu.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/17 17:32 |
| S55 | 4 | mimo and niu.in. and training | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/17 17:32 |

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| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|------------------------------------|---|------------------|---------|------------------|
| L1 | 1 | 10/830954 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/26 14:10 |
| L2 | 1 | 11/392407 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/26 14:11 |
| L3 | 0 | 11/777361 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/26 14:11 |
| L5 | 3 | "20020122383" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/26 15:09 |
| L6 | 2 | "20020122383" and (train\$4 pilot) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/26 15:09 |
| S2 | 1 | 10/726118 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/26 14:09 |
| S3 | 4 | 2001/0028637 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/08 15:54 |
| S4 | 2 | "20010028637" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/08 15:56 |
| S5 | 2 | "20040008614" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/08 15:56 |

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|-----|------|--|---|----|----|------------------|
| S6 | 1449 | OFDM and ((sub\$1carrier multi\$1carrier) ((plurality multi\$1) near3 carrier)) same ((training pilot) and data) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/08 16:05 |
| S7 | 775 | OFDM same ((sub\$1carrier multi\$1carrier) ((plurality multi\$1) near3 carrier)) same ((training pilot) and data) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/20 14:19 |
| S8 | 4 | OFDM same ((sub\$1carrier multi\$1carrier) ((plurality multi\$1) near3 carrier)) same ((training pilot) and ("no" near2 training)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/08 16:34 |
| S9 | 3 | "20040001563" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/08 17:15 |
| S10 | 2 | "6404783".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/08 17:15 |
| S11 | 36 | ofdm and ((plurality multiple) near5 (piolt train\$4) with (group\$4 packet\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/19 11:10 |
| S12 | 162 | ofdm and ((transmit\$4 transmis\$8) with (piolt train\$4) with (group\$4 packet\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/20 11:22 |
| S13 | 61 | ofdm and ((transmit\$4 transmis\$8) near4 (piolt train\$4) near5 (group\$4 packet\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/19 11:11 |
| S14 | 30 | ofdm and ((transmit\$4 transmis\$8) near4 (piolt train\$4) near5 (group\$4 packet\$4)) and ((plurality multiple)near5 (antenna\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/19 11:13 |
| S15 | 1 | ofdm and (((transmit\$4 transmis\$8) near4 (piolt train\$4) near5 (group\$4 packet\$4)) same distribut\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/19 11:14 |

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|-----|-----|--|---|----|----|------------------|
| S16 | 40 | ofdm and (((transmit\$4 transmis\$8) near4 (piolt train\$4)) same distribut\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/19 11:31 |
| S17 | 1 | 10/944616 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/19 11:41 |
| S18 | 55 | (selectiv\$7 near5 (whiten\$7 flat\$7) near5 spectr\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/19 11:44 |
| S19 | 2 | (selectiv\$7 near5 (whiten\$7 flat\$7) near5 spectr\$4) same (orthogonal\$8 perpendicular\$8) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/19 11:43 |
| S26 | 3 | ofdm and (simultaneous\$7 near4 (transmit\$4 transmis\$8) with (piolt train\$4) with (group\$4 packet\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/20 11:19 |
| S27 | 18 | (simultaneous\$7 near4 (transmit\$4 transmis\$8) with (piolt train\$4) with (group\$4 packet\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/20 11:20 |
| S28 | 277 | ofdm and (((transmit\$4 transmis\$8) with (piolt train\$4) with (group\$4)) distribut\$4 near4 (pilot train\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/20 11:23 |
| S29 | 7 | ofdm and (((transmit\$4 transmis\$8 distribut\$4) near4 (piolt train\$4) near4 (group\$4))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/20 11:23 |
| S30 | 13 | ("4615040" "5442625" "5473601" "5636246" "5734646" "5751705" "5751716" "5781541" "5781583" "5805575" "5832030" "5867478").PN. OR ("6404783").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/08/20 13:44 |
| S31 | 116 | (ofdm) and (distributor) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/08/20 13:47 |

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|-----|------|--|---|----|----|------------------|
| S32 | 23 | (ofdm) and ((distributor) with (packet cluster group)) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/08/20 14:03 |
| S33 | 2537 | ((distributor) near5 (packet cluster group)) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/08/20 14:04 |
| S34 | 19 | ((distributor) near5 (packet cluster group) near4 (pilot train\$4)) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/08/20 14:04 |
| S35 | 14 | OFDM same ((training pilot) near4 (group\$4 cluster packet)) same ((plurality multiple) near4 (antenna\$2)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/20 16:16 |
| S36 | 0 | OFDM same ((training pilot) near4 each near4 (antenna\$2)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/20 16:17 |
| S37 | 0 | ((training pilot) near4 each near4 (antenna\$2)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/20 16:17 |
| S38 | 0 | ((training pilot) same each near4 (antenna\$2)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/20 16:17 |
| S39 | 135 | ((training pilot) with (once each every) with (antenna\$2)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/20 16:18 |
| S40 | 56 | ((training pilot) with (once each every) with (antenna\$2)) and ofdm | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/20 16:18 |
| S41 | 30 | ((training pilot) with ((once each every) near4 (antenna\$2))) and ofdm | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/21 11:02 |
| S42 | 80 | ((training pilot) with (cyclic\$5 near5 transmi\$9)) and ofdm | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/21 11:03 |

EAST Search History

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|-----|----|---|---|----|----|------------------|
| S43 | 19 | ((training pilot) with (cyclic\$5 near5 transmi\$9) with antenna\$4) and ofdm | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/21 11:03 |
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☒ Journal sources ☒ Preferred Web sources ☒ Other Web sources ☐ Exact phrase

Searched for:: :All of the words:ofdm AND training AND pilot AND distribution AND antenna

Found:: :1,240 total | 6 journal results | 326 preferred web results | 908 other web results

Sort by:: :relevance | date

☐ **681.** [R01-01.PDF](#) [PDF-681K]

Mar 2002

과학기술분류 체계에 관한 연구 Science and Technology Classification System in Korea 2001
과학기술정책연구원:과학기술분류 체계에 관한 연구 Science and Technology Classification
System in Korea 2001. 12.

[<http://www.stepi.re.kr/researchpub/fulltext/R01-01.pdf>]
[similar results](#)

☐ **682.** [Adaptive time deversity and spatial diversity for OFDM](#)

Wu, Shiquan / Tong, Wen / Strawczynski, Leo (Nortel Networks Limited),
EUROPEAN PATENT, Mar 2002

patno:EP1185001

...transmitted data, an **OFDM** frame contains...preamble, continual **pilot** sub-carriers...preamble contains **OFDM** symbols that all used for **training** to realize timing...The continual **pilot** sub-carriers contain **training** symbols that...constant for all **OFDM** symbols. They...

Full text available at patent office. For more in-depth searching go to LexisNexis
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☐ **683.** [FLEXIBLE TDMA SYSTEM ARCHITECTURE](#)

SUBRAMANIAN, Ravi / WOODTHORPE, Christopher C. / HOLMES, David M. / JHA, Uma (MORPHICS TECHNOLOGY, INC.), *PATENT COOPERATION TREATY APPLICATION*, Feb 2002

patno:WO0213418

...In particular, one fixed wireless application to which the present invention may be applied is a metropolitan multipoint **distribution** system (A/IMDS): Examples include wireless cable broadcast, or two-way wireless local loop (W'LL) systems. Some examples...

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☐ **684.** [Flexible TDMA system architecture](#)

Subramanian, Ravi / Woodthorpe, Christopher C. / Holmes, David M. / Jha,

Uma, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Feb 2002

patno:US20020015401

...having multiple individual **antennae** arranged in sectors, the present invention is well suited to **antenna** 120 be a single or dual **antennae** for a mobile handset or a test...frequency division multiplexing (**OFDM**). More detail is provided in...


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[view all 253 results from Patent Offices](#)
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☐ **685. WIRELESS INTERACTIVE SYSTEM AND METHOD**

HADAD, Zion (RUNCOM COMMUNICATIONS LTD.), *PATENT COOPERATION TREATY APPLICATION*, Jan 2002

patno:WO0209298

...orthogonal frequency division multiplexed (**OFDM**) signal. The method uses two **OFDM training** symbols to obtain full synchronization in...differentially modulated relative to those of the first **OFDM training** symbol by a predetermined sequence. Awater...

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☐ **686. BABEL: A Glossary of Computer Related Abbreviations and Acronyms [200K]**

Jan 2002

...AFD Automatic File **Distribution** AFDW Active Framework...Architecture-Neutral **Distribution** Format ANI Automatic...Berkely Software/Standard **Distribution** BSF Bit Scan Forward...CATS Computer Assisted **Training** System CAT SCAN Computerized...Scan CATV Community **Antenna** Television (this was...
[<http://www.cfsan.fda.gov/~lrd/babel99c.html>]

[similar results](#)

☐ **687. AMOUR-generalized multicarrier transceivers for blind CDMA regardless of multipath - Communications, IEEE Transactions on [PDF-383K]**

Jan 2002

...bandwidth-consuming **training** sequences or self-re...bandwidth-consuming **training** sequences), it is...sought [23], [26]. **Antenna** diversity trades...base station's **pilot** wave- form (see...estimated (e.g., via **pilot** signals). Based on...of IBI. Similar to **OFDM**, IBI removal can...

[<http://home.eng.iastate.edu/~zhengdao/group/publicatio...>]

[similar results](#)

☐ **688. Space time processing for third generation CDMA systems**

Alam, Fakhrul. , Jan 2002

...interference. There are **Pilot** Symbol Assisted...elements of a practical **antenna** array, we can not...Division Multiplexing (**OFDM**) is a multi-carrier...propose a simple **pilot** symbol assisted frequency...beamforming technique for **OFDM** receiver and demonstrate...9 2.2 **Antenna** Array...

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☐ **689. Combined space-time diversity and interference cancellation for MIMO wireless systems**

Tsai, Jiann-An. , Jan 2002

...Impact of AOA Energy **Distribution** on Spatial Correlation...Performance of Transmit **Antenna** Arrays 71 5.1 Open-Loop...Model for Adaptive **Antenna** Arrays...Criterion for Adaptive **Antenna** Array...Beamforming for WCDMA and **OFDM** 151 9.1 Introduction...186 10.5.1 **Pilot**-Symbol Based Channel...

Full text thesis available via NDLTD (OCLC)

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❑ **690.** Space-time codes for high data rate wireless communications

Gozali, Ran., Jan 2002

...VT-STAR) is designed, introducing a multi-**antenna** hardware laboratory test bed, which facilitates...2 V-BLAST spectral efficiency: 8×8 **antenna** array architecture
 . . 51 4...several coded modulation methods for single **antenna** systems in AWGN at 10-5 symbol error...

Full text thesis available via NDLTD (OCLC)

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❑ **691.** Asymmetric measurement-based dynamic packet assignment system and method for wireless data services

Benveniste, Mathilde, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Dec 2001

patno:US20010055297

...base station could transmit simultaneously **pilot** tones that correspond to its assigned downlink...transmit on the uplink control channel **pilot** tones that correspond to their assigned...transmits on a downlink control channel **pilot** tones that correspond to their assigned...

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❑ **692.** In-band on-channel digital broadcasting method and system

Kumar, Derek D., *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Dec 2001

patno:US20010050926

...interval in order to cause a more uniform and random error **distribution** after corresponding deinterleaving in the receiver system...delay length. [0117] Although interleaver 43 causes the error **distribution** within an interleaver frame to be random and uncorrelated...

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❑ **693.** Identification of a base station, using latin-square hopping sequences, in multicarrier spread-spectrum systems

Laröia, Rajiv / Li, Junyi / Rangan, Sundeep / Viswanath, Pramod (Flarion Technologies, INC.), *EUROPEAN PATENT APPLICATION*, Oct 2001.

patno:EP1148673

...and the assignment of **pilot** tones as a function of time is called the "**pilot** hopping sequence". Again...resulting when using the **training** sequence of symbols is...experienced when using the **pilot** tone hopping sequence...downlink signal. Since the **OFDM**-SSMA physical layer is...

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❑ **694.** Pilot use in multicarrier spread spectrum systems

Läröia, Rajiv / Li, Junyi / Uppala, Sathyadev Venkata (Flarion Technologies, INC.), *EUROPEAN PATENT APPLICATION*, Oct 2001





patno:EP1148674

...division multiplexing (**OFDM**) based spread spectrum...have transmitted **training** symbols periodically...known that once the **training** symbols interfere...interfere. Thus, if the **training** symbols are corrupted...addressed by employing **pilot** signals including...the duration of an **OFDM** symbol. Note that...

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- ❑ **695. Sampling offset correction in an orthogonal frequency division multiplexing system**
Belotserkovsky, Maxim B. / Litwin, Louis Robert (Thomson Licensing S.A.),
EUROPEAN PATENT APPLICATION, Oct 2001
 patno: EP1139624
 ...detection of **OFDM** transmissions. The **training** sequence (e.g., **training** sequence A or B) includes a series of short **OFDM training** symbols (having known amplitudes...transmitted over a predetermined number of **pilot** sub- carriers or bins (e.g., 12 **pilot**...
Full text available at patent office. For more in-depth searching go to  LexisNexis
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- ❑ **696. FREQUENCY DOMAIN DIRECT SEQUENCE SPREAD SPECTRUM WITH FLEXIBLE TIME FREQUENCY CODE**
STERN, Martin (RAYTHEON COMPANY), *PATENT COOPERATION TREATY APPLICATION*, Sep 2001
 patno: WO01067665
 ...track the signal. **OFDM** generally uses fixed sub-bands and **pilot**/tracking/traffic...then fed to an **antenna** 40 for propagating...by a receive **antenna** 50 which feeds...Frequency Modulation (**OFDM**) waveform wherein...equalizer/RAKE **training** for efficient...gaussian amplitude **distribution** and suppressed...
Full text available at patent office. For more in-depth searching go to  LexisNexis
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- ❑ **697. BABEL: A Glossary of Computer Related Abbreviations and Acronyms** [211K]
 Sep 2001
 ...AATP Authorized Academic **Training** Program [Microsoft] .ABA...Email ACD Automatic Call **Distribution** ACDI Asynchronous Communications...Development System + Automatic **Distribution** System ADSC Address Status...Control AFD Automatic File **Distribution** AFDW Active Framework for...
[\[http://www.gsi.de/%7Egiese/babel.html\]](http://www.gsi.de/%7Egiese/babel.html)
[similar results](#)
- ❑ **698. Frequency offset correction in a multicarrier receiver**
Belotserkovsky, Maxim B., Thomson Multimedia / Litwin, Louis Robert, Jr.
Thomson Multimedia (Thomson Licensing, Inc.), *EUROPEAN PATENT APPLICATION*, Aug 2001
 patno: EP1126673
 ...**OFDM** transmissions. Briefly, the **training** sequence (e.g., **training** sequence A or B) includes a series of short **OFDM training** symbols (having known amplitudes...transmitted over a predetermined number of **pilot** sub-carriers or bins (e.g., 12 **pilot**...
Full text available at patent office. For more in-depth searching go to  LexisNexis
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- ❑ **699. SYSTEM AND METHOD FOR NEAR OPTIMAL JOINT CHANNEL ESTIMATION AND DATA DETECTION FOR COFDM SYSTEMS**
LIN, Lang / CHUANG, Justin C. / LI, Ye (Geoffrey) (AT & T CORP.), *PATENT COOPERATION TREATY APPLICATION*, Aug 2001
 patno: WO0158105
 ...frequency diversity in **OFDM**, a simple interleaving...case of $M = 2$ receiving **antennas** is now presented. At...signal from the m th **antenna** at the k th subchannel...the same as that of the **OFDM** block, (1) can be rewritten...word, can be used as a **training** sequence in (7) to obtain...
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☐ **700.isspa2001** [59K]

Aug 2001

...Windowed Wigner-Ville **Distribution** by Ahmad Zuri...Time-Frequency **Distributions**
To The Independent...Time-Frequency **Distributions** For Amplitude And...Statistic Filters
By **Training**-Based Optimization...Nonuniform Linear **Antenna** Arrays by Yuri...Belgium)
in session **OFDM** Communication Systems...

[<http://www.tsi.enst.fr/~abed/isspa2001/programs/allpap...>]

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IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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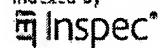
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